

<p><b>RTECS Number</b></p> <p><b>Toxicant Name</b></p> <p><b>Synonyms</b></p> <p><b>CAS Number</b></p> <p><b>Formula</b></p> <p><b>Weight</b></p> <p><b>Wiswesser Line</b></p> <p><b>Compound Descriptor</b></p> <p><b>Irritation</b></p>     <p><b>Mutagenicity</b></p>         <p><b>Reproductive Effects</b></p>	<p>AL7700000</p> <p>Acetonitrile</p> <p>Methylcyanid (Czech); Acetonitrile (ACGIH:OSHA); USAF EK-468; RCRA waste number U003; NCI-C60822; Acetonitril (German, Dutch); Cyanomethane; Cyanure de methyl (French); Ethanenitrile; Ethyl nitrile; Methanecarbonitrile; Methane, cyano-</p> <p>78-05-8</p> <p>C2H3N</p> <p>41.06</p> <p>NC1</p> <p>Tumorigen; Mutagen; Reproductive Effector; Human Data; Primary Irritant</p> <p>Skin:Rabbit 500 mg open Mild Reaction</p> <p>Union Carbide Data Sheet. (Union Carbide Corp., 39 Old Ridgebury Rd., Danbury, CT 06817) 3/18/1985</p> <p>Eyes:Rabbit 100 uL/24H Moderate Reaction</p> <p>International Journal of Toxicology. (Taylor &amp; Francis, 47 Runway Rd., Suite g, Levittown, PA 19057) V.16- 1987- 19, 383,2000</p> <p>Sex Chromosome Loss and Nondisjunction:Drosophila melanogaster-Inhalation 131 ppm</p> <p>Mutation Research. (Elsevier Science Pub. B.V., POB 211, 1000 AE Amsterdam, Netherlands) V.1- 1984- 259,185,1991</p> <p>Sex Chromosome Loss and Nondisjunction:Saccharomyces cerevisiae 47600 ppm</p> <p>Mutation Research. (Elsevier Science Pub. B.V., POB 211, 1000 AE Amsterdam, Netherlands) V.1- 1984- 149,339,1985</p> <p>Sister Chromatid Exchange:Hamster:Ovary 5 gm/L</p> <p>Environmental and Molecular Mutagenesis. (Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003) V.10- 1987- 10(Suppl 10),1,1987</p> <p>Effects on Fertility(Post-implantation mortality)</p> <p>Inhalation:Rat TCLo 1800 ppm/6H (6-20D preg)</p> <p>Fundamental and Applied Toxicology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1-40, 1981-87. For publisher information, see TOXCF2 20,385,1993</p> <p>Maternal Effects(Other effects); Effects on Embryo or Fetus( Fetal death); Specific Developmental Abnormalities( Musculoskeletal system)</p> <p>Oral:Rabbit TDLo 390 mg/kg (6-18D preg)</p> <p>National Technical Information Service. (Springfield, VA 22161) Formerly U.S. Clearinghouse for Scientific &amp; Technical Information. OTS0553575</p> <p>Specific Developmental Abnormalities(Musculoskeletal system)</p> <p>Oral:Hamster TDLo 300 mg/kg (8D preg)</p> <p>Teratology, The International Journal of Abnormal Development. (Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003) V.1- 1988- 27,313,1983</p> <p>Effects on Fertility(Post-implantation mortality)</p> <p>Oral:Hamster TDLo 400 mg/kg (8D preg)</p> <p>Teratology, The International Journal of Abnormal Development. (Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003) V.1- 1988- 27,313,1983</p> <p>Effects on Fertility(Post-implantation mortality); Specific Developmental Abnormalities(Central nervous system)</p> <p>Inhalation:Hamster TCLo 5000 ppm/1H (8D preg)</p>
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**Tumorigenicity**

**Acute Toxicity**

Teratology, The International Journal of Abnormal Development. (Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003) V.1- 1968- 27,313,1983  
 Effects on Embryo or Fetus(Fetotoxicity); Specific Developmental Abnormalities(Musculoskeletal system)  
 Inhalation:Hamster TCLo 8000 ppm/1H (80 preg)  
 Teratology, The International Journal of Abnormal Development. (Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003) V.1- 1968- 27,313,1983  
 Equivocal; Liver  
 Inhalation:Rat TCLo 400 ppm/6H/2Y-I  
 National Toxicology Program Technical Report Series. (Research Triangle Park, NC 27709) No.208- NTP-TR-447. 1996  
 Behavioral(Coma); Cardiac(Pulse rate increase without fall in BP); Lungs, Thorax, or Respiration(Respiratory depression)  
 Oral:Woman TDLo 500 mg/kg  
 Postgraduate Medical Journal. (Blackwell Scientific Pub. Ltd., POB 88, Oxford, UK) V.1- 1925- 73,299,1997  
 Behavioral(Hallucinations, distorted perceptions); Behavioral(Convulsions or effect on seizure threshold); Gastrointestinal(Nausea or vomiting)  
 Oral:Child TDLo 800 mg/kg  
 American Journal of Emergency Medicine. (WB Saunders, Philadelphia, PA) V.1- 1983- 9,268,1991  
 Behavioral(Convulsions or effect on seizure threshold); Gastrointestinal(Nausea or vomiting); Nutritional and Gross Metabolic(Metabolic acidosis)  
 Oral:Man TDLo 571 mg/kg  
 Acta Pharmacologica et Toxicologica, Supplementum. (Munksgaard International Pub., POB 2148, DK-1018 Copenhagen K, Denmark) No.1- 1947- 41,340,1977  
 Behavioral(Excitement)  
 Oral:Man TDLo 64 mg/kg  
 Journal of Toxicology, Clinical Toxicology. (Marcel Dekker, 270 Madison Ave., New York, NY 10016) V.19- 1982- 29, 447,1991  
 Lungs, Thorax, or Respiration(Other changes)  
 Inhalation:Human TCLo 180 ppm/4H  
 Toxicology of Drugs and Chemicals, Delchmann, W.B., New York, Academic Press, Inc., 1969 -,65,1969  
 Oral:Rat LD50 2460 mg/kg  
 Union Carbide Data Sheet. (Union Carbide Corp., 39 Old Ridgebury Rd., Danbury, CT 06817) 3/18/1965  
 Behavioral(Altered sleep time); Behavioral(Convulsions or effect on seizure threshold); Blood(Hemorrhage)  
 Inhalation:Rat LC50 7551 ppm/8H  
 Journal of Occupational Medicine. (Chicago, IL) V.1-9, 1957- 67. For publisher information, see:JJOMDZ 1,634,1959  
 Intraperitoneal:Rat LD50 850 mg/kg  
 Journal of Occupational Medicine. (Chicago, IL) V.1-9, 1957- 67. For publisher information, see:JJOMDZ 1,634,1959  
 Subcutaneous:Rat LD50 3500 mg/kg  
 Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982 -,16,1982  
 Intravenous:Rat LD50 1850 mg/kg

Journal of Occupational Medicine. (Chicago, IL) V.1-9, 1957-67. For publisher information, see:JJOMDZ 1,634,1959  
 Parenteral:Rat LD50 1100 mg/kg  
 Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982 -,16,1982  
 Oral:Mouse LD50 269 mg/kg  
 Archives of Toxicology. (Springer-Verlag, Heidelberger Pl. 3, D-1000 Berlin 33, Fed. Rep. Ger.) V.32- 1974- 55,47,1984  
 Liver(Other changes)  
 Inhalation:Mouse LC50 2893 ppm/1H  
 Clinical Toxicology. (New York, NY) V.1-18, 1968-81. For publisher information, see JTCTDW. 18,981,1981  
 Sense Organs and Special Senses(Eye:Corneal damage); Behavioral(Ataxia); Lungs, Thorax, or Respiration(Dyspnea)  
 Intraperitoneal:Mouse LD50 175 mg/kg  
 Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1959- 59,589,1981  
 Subcutaneous:Mouse LD50 4480 mg/kg  
 Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982 -,16,1982  
 Intravenous:Mouse LD50 612 mg/kg  
 Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982 -,16,1982  
 Inhalation:Dog LCLo 16000 ppm/4H  
 Journal of Occupational Medicine. (Chicago, IL) V.1-9, 1957-67. For publisher information, see:JJOMDZ 1,634,1959  
 Oral:Cat LD50 200 mg/kg  
 Zentralblatt fuer Arbeitsmedizin und Arbeitsschutz. (Darmstadt, Fed. Rep. Ger.) V.1-25, 1951-75. 19,225,1989  
 Inhalation:Cat LC50 18 gm/m3  
 Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, Izmerov, N.F., et al., Moscow, Centre of International Projects, GKNT, 1982 -,16,1982  
 Oral:Rabbit LD50 50 mg/kg  
 Zentralblatt fuer Arbeitsmedizin und Arbeitsschutz. (Darmstadt, Fed. Rep. Ger.) V.1-25, 1951-75. 19,225,1989  
 Behavioral(Altered sleep time); Behavioral(Convulsions or effect on seizure threshold); Blood(Hemorrhage)  
 Inhalation:Rabbit LC50 2828 ppm/4H  
 Journal of Occupational Medicine. (Chicago, IL) V.1-9, 1957-67. For publisher information, see:JJOMDZ 1,634,1959  
 Skin:Rabbit LD50 >2 gm/kg  
 International Journal of Toxicology. (Taylor & Francis, 47 Runway Rd., Suite g, Levittown, PA 19057) V.16- 1997- 19, 363,2000  
 Subcutaneous:Rabbit LDLo 105 mg/kg  
 Archives Internationales de Pharmacodynamie et de Therapie. (Hoymans Institute of Pharmacology, De Pintelaan 185, B-9000 Ghent, Belgium) V.4- 1898- 36,455,1929  
 Oral:Guinea pig LD50 177 mg/kg  
 Journal of Occupational Medicine. (Chicago, IL) V.1-9, 1957-67. For publisher information, see:JJOMDZ 1,634,1959  
 Behavioral(Altered sleep time); Behavioral(Convulsions or effect on seizure threshold); Blood(Hemorrhage)

Repeated Dose Data

Inhalation: Guinea pig LC50 5655 ppm/4H  
Journal of Occupational Medicine. (Chicago, IL) V.1-8, 1957-  
67. For publisher information, see: JOMDZ 1,634,1959  
Peripheral Nerve and Sensation (Spastic paralysis with or  
without sensory change); Lungs, Thorax, or Respiration (Dyspnea)  
Subcutaneous: Frog LDLo 9100 mg/kg  
Archives Internationales de Pharmacodynamie et de Therapie.  
(Heymans Institute of Pharmacology, De Pintelaan 185, B-  
9000 Ghent, Belgium) V.4- 1898- 5,161,1899  
Oral: Mammal LD50 1670 mg/kg  
Gigiena i Sanitariya. For English translation, see HYSAAV. (V/  
O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) V.1-  
1936- 39(4),88,1974  
Lungs, Thorax, or Respiration (Chronic pulmonary edema);  
Liver (Other changes); Kidney, Ureter, and Bladder (Changes in  
tubules)  
Inhalation: Rat TCLo 655 ppm/7H/90D-I  
Journal of Occupational Medicine. (Chicago, IL) V.1-8, 1957-  
67. For publisher information, see: JOMDZ 1,634,1959  
Behavioral (Somnolence (general depressed activity));  
Behavioral (Ataxia); Death in nutritional and gross metabolic  
effect  
Inhalation: Rat TCLo 800 ppm/6H/13W-I  
National Technical Information Service. (Springfield, VA  
22161) Formerly U.S. Clearinghouse for Scientific &  
Technical Information. OTS0535664  
Behavioral (Somnolence (general depressed activity)); Lungs,  
Thorax, or Respiration (Chronic pulmonary edema); Death in  
nutritional and gross metabolic effect  
Inhalation: Mouse TCLo 800 ppm/6H/13W-I  
National Technical Information Service. (Springfield, VA  
22161) Formerly U.S. Clearinghouse for Scientific &  
Technical Information. OTS0535664  
Nutritional and Gross Metabolic (Weight loss or decreased  
weight gain)  
Inhalation: Dog TCLo 350 ppm/7H/91D-I  
Journal of Occupational Medicine. (Chicago, IL) V.1-8, 1957-  
67. For publisher information, see: JOMDZ 1,634,1959  
Brain and Coverings (Changes in circulation); Lungs, Thorax, or  
Respiration (Emphysema); Blood (Changes in erythrocyte (RBC)  
count)  
Inhalation: Monkey TCLo 350 ppm/7H/91D-I  
Journal of Occupational Medicine. (Chicago, IL) V.1-8, 1957-  
67. For publisher information, see: JOMDZ 1,634,1959